

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/502,351

Applicant : Lian Hui ZHANG et al

Filed : July 23, 2004

TC/A.U. : Unknown Examiner : Unknown

Docket No. : 2977-154
Customer No. : 06449
Confirmation No. : 6085

## INFORMATION DISCLOSURE STATEMENT

Director of the United States Patent and Trademark Office P.O. Box 1450 Alexandria, Virginia 22313-1450

Dear Sir:

Under the provisions of 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant submits herewith information that the Office may wish to consider in examination of the subject application. Materials submitted for consideration are listed on the attached form PTO-1449.

Respectfully submitted,

By

Mártha Cassidy

Attorney for Applicants Registration No. 44,066

ROTHWELL, FIGG, ERNST & MANBECK, p.c.

Suite 800, 1425 K Street, N.W.

Washington, D.C. 20005 Telephone: (202)783-6040

Enclosure(s): Form PTO 1449 (w/References)

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				Group Art Unit	Unknown	
				Examiner Name	Unknown	
				Confirmation No.	6085	
Sheet	1	of	4	Attorney Docket Number	2977-154	

			U.S. PATEN	NT DOCUMENTS	
		U.S. Patent D	ocument	Name of Patentee or Applicant	Date of Publication
Examiner Initials*	Cite No. <sup>1</sup>	Number	Kind Code <sup>2</sup> (if known)	of Cited Document	of Cited Document  MM-DD-YYYY

			FOREIGN PAT	ENT DOCUMENTS		
		F	Foreign Patent Document		Date of Publication of	
Examiner Initials*	Cite No. <sup>1</sup>	Office <sup>3</sup> Code	Number <sup>4</sup> Kind <sup>5</sup> (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	T⁵
	AA	PCT	WO 01/98214 A1	NOVOZYMES BIOTECH INC.	12/27/2001	

		NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published						
	AB	ALLISON et al., "Extracellular products as mediators of the formation and detachment of Pseudomonas fluorescens biofilms," FEMS Microbiol. Lett. 167:179-184, 1998.						
	AC	BASSLER, et al., "Cross-species induction of luminescence in the quorum-sensing bacterium Vibrio harveyi," J. Bacteriol. 179:4043-4045, 1997.						
	AD	BECK von BODMAN et al., "Capsular polysaccharide biosynthesis and pathogenicity in Erwinia stewartii require induction by an N-acyl homoserine lactone autoinducer," J. Bacteriol. 177:5000-5008, 1995.						
	AE	CAO et al., "Purification and structural identification of an autoinducer for the luminescence system of <i>Vibrio harveyi</i> ," <i>J. Biol. Chem.</i> 264:21670-21676, 1989.						
Examiner Signature		Date Considered						

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code. ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached. AB indicates that only an English language abstract is attached.

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	AF	CHA et al., "Production of acyl-homoserine lactone quorum-sensing signals by gram-negative plant-associated bacteria," <i>Mol. Plant Microbe Interact.</i> 11:1119-1129, 1998.						
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	АН	DAUMY et al., "Role of protein subunits in Proteus rettgeri penicillin G acylase," <i>J. Bacteriol</i> . 163:1279-1281, 1985.						
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AN EBERHARD et al., "Structural identification of autoinducer of <i>Photobacterum fischeri luciferase</i> ," Biochemistry 20:2444-2449, 1981.								
	АО	EBERL et al., "Involvement of N-acyl-L-homoserine lactone autoinducers in controlling the multicellular behaviour of <i>Serratia liquefaciens</i> ," Mol. Microbiol. 20:127-136, 1996.						
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<sup>&#</sup>x27;Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code. <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached. AB indicates that only an English language abstract is attached.



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	AX NASSER et al., "Characterization of the <i>Erwinia chrysanthemi</i> expl-expR locus direction synthesis of two N-acyl-homoserine lactone signal molecules," <i>Mol. Microbiol.</i> 29:139 1998.							
	AY	PASSADOR et al., "Expression of Pseudomonas aeruginosa virulence genes requires cell-to-cell communication," <i>Science</i> 260:1127-1130, 1993.						
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	AZ	PEARSON et al., "Structure of the autoinducer required for expression of <i>Pseudomonas aeruginosa</i> virulence genes," Proc. Natl. Acad. Sci. USA 91:197-201, 1994.					
	ВА	PIPER et al., "Conjugation factor of Agrobacterium tumefaciens regulates Ti plasmid transfer by autoinduction," Nature 362:448-450, 1993.					
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	BD	TASKAWICZ et al., "Molecular characterization of cloned avirulence genes from race 0 and ace 1 of Pseudomonas syringae pv. Glycinea," J. Bacteriol. 169:5789-5794, 1987.					
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	BG	WHITE et al., "Genome Sequence of the Radioresistant Bacterium Deinococcus Radiodurans R1," <i>Science</i> 286:1571-1577, 1999.  ZHANG et al., "Agrobacterium conjugation and gene regulation by N-acyl-L-homoserine lactones," <i>Nature</i> 362:446-448, 1993.  Swiss-Prot. Accession Q9RYQ4, WHITE et al., (two pages) (1999).  EmbL Accession AE001836, WHITE et al., (ninety pages) (1999).					
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